

## **Benchmark Inventory & Records Producer-Certification Worksheet**

## **IRRIGATION**

To CSP Applicant:	(Applicant Name)
For those cropland and or pastureland acres please complete the following Irrigation Invelous with assessing the benchmark condition f	ntory Worksheet. This information will help
List irrigated tract(s) and/or field(s) no.'s  1. What type of irrigation system do you	use on your farm or ranch? Place an
Border – graded border Border – level or basin Border - guide Border - contour level field crop Border - contour - level rice Border - contour - level rice - side inlets Border - border ditch Furrow - level or Basin Furrow - graded furrow Furrow - contour furrow Furrow - surge Sub-irrigation - sub-irrigated Flood - controlled Flood - contour ditch Sprinkler - big gun or boom	Sprinkler - hand line or wheel line Sprinkler - solid set (above canopy) Sprinkler - solid set (below canopy) Center Pivot - generic Center Pivot - low pressure improved Center Pivot - low energy precision application (LEPA)* Center Pivot - low elevation spray application (LESA)* Center Pivot - low pressure in canopy (LPIC)* Center Pivot - mid-elevation spray application (MESA)* Center Pivot - variable rate irrigation (VRI)* Lateral Move - (LEPA, LESA, LPIC, MESA) Lateral Move - (VRI) Micro-irrigation - point source Micro-irrigation - sprays Micro-irrigation - subsurface drip Other (please explain)
2. How do you measure the amount of ranch? Place an ☐ next to your selection.  ☐ No flow measuring devices ☐ Flow measurement - whole farm - manually reached for the place individual of the place i	ection . ecorded recorded
☐Flow measurement - whole farm plus individu	al field automatic recorded

	□ Visual crop stress □ Soil moisture by the NRCS feel method □ Check book scheduling, irrigation scheduler, etc □ Irrigation scheduling via pan evaporation or atmometer for field □ Irrigation scheduling via regional weather network □ Soil moisture using Gypsum Blocks, moisture probe, etc □ Continuous measurement of soil moisture, water applied and ET (such as crop-flex or kan-sched) □ Other (please explain)
4.	. How is the water conveyed to your farm or ranch? Place an $oxtimes$ next to your
	selection.
	<ul> <li>□ Very poor diversion facilities. Little control of flow rate to farm.</li> <li>□ Can control flow rates to farm, but the on-farm delivery system is such that it is very hard to deliver the desired flow to any given field.</li> <li>□ Flow rates to each field are adequately controlled. Flow rates to each set are difficult to control.</li> <li>□ All flow rates to each set are adequately controlled (such as that provided by an on-site well).</li> <li>□ Other (please explain)</li> </ul>
5.	. How is the water conveyed to fields? Place an $igtimes$ next to your selection.
	□ Open ditch or canal - sand/gravel □ Open ditch or canal - sandy loam □ Open ditch or canal - clay soil □ Open canal - lined □ Closed conduit pipeline (includes on-site wells and sprinkler systems) □ Other (please explain)
6.	What is the average condition of irrigated fields with regard to grade and slope? Place an $\boxtimes$ next to your selection.
	□ Land smoothed □ Land leveled □ Land precision leveled □ Land precision leveled - slope <= .005 □ A sprinkler system is utilized □ Other (please explain)
7.	Do you capture tail-water and reuse it? Place an $\boxtimes$ next to your selection.
	□none Tailwater reuse system installed □ Potential system efficiency <60% □ Potential system efficiency 61-80% □ Potential system efficiency > 80%

3. How do you schedule irrigation? Place an  $\boxtimes$  next to your selection.

8. Do you apply pesticides and/or nutrients through your irrigation system?		
□Yes □No		
*Definition of terms related t	o Center Pivots:	
e) Only applicable to crops planted v f) Maximum of 1% slope in most of g) Furrow Diked or other means of p  LESA - Low Elevation Spray Appl a) Farmed in any row direction b) Nozzle Height is no more than 18 c) Nozzle Spacing is alternate row, v d) Discharge is through spray nozzle e) Applicable on crops flat planted, of	Linear Move Systems) inches above soil surface up to a maximum of 80 inches or hose on the ground, or through a bubble shield or pad with furrows or beds if field or eventing irrigation water movement away from point of application  ication inches above soil surface up to a maximum of 80 inches is drilled, or planted with furrows or beds	
f) Maximum of 3% slope in most of		
	(10 feet)	
MESA - Mid Elevation Spray Appl a) Farmed in any row direction b) Nozzle Height is more than 36 inc c) Nozzle Spacing up to 120 inches ( d) Discharge is above the crop canop e) Maximum of 3% slope in most of	ches (3 feet) and less than 84 inches (7 feet) above soil surface (10 feet)	
concept in agriculture. Variable-rate water in optimum amounts over an en	o called site-specific irrigation or precision irrigation, is a relatively new irrigation is a tool of Precision Farming that involves the delivery of irrigation natire field. This system relies heavily on automation with computer control of The controller cycles air valves to set application rates considering such toography.	
Certification Statement		
	rrect to the best of my knowledge. I understand that if ninimum of two years of documentation to support the	
Name:	Date:	